

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,970	06/25/2001	Adrian E. Ong	M-9820 US	1405
7590 12/07/2004			EXAMINER	
Philip W. Woo			CHANG, DANIEL D	
Sidley Austin E	Brown & Wood LLP			
555 California Street			ART UNIT	PAPER NUMBER
Suite 5000 San Fransico, CA 94104-1715			2819	
			DATE MAILED: 12/07/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/888,970	ONG, ADRIAN E.				
Office Action Summary	Examiner	Art Unit				
	Daniel D. Chang	2819				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re- If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply within the statutory minimum of thirty of will apply and will expire SIX (6) MONT ute, cause the application to become ABA	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 25	June 2001.					
	nis action is non-final.					
3) Since this application is in condition for allow	_					
Disposition of Claims						
 4) Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examination 10) The drawing(s) filed on 25 June 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11. The oath or declaration is objected to by the I	a)⊠ accepted or b)□ object the drawing(s) be held in abeyand the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document of the certified copies of the priority document of the copies of the certified copies of the priority document of the copies of the priority document of the copies of the priority document of the certified copies of the certified copies of the priority document of the certified copies of the certified copies of the priority document of the certified copies of the certified	nts have been received. nts have been received in Ap fority documents have been r au (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0. Paper No(s)/Mail Date	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152)				

Application/Control Number: 09/888,970

Art Unit: 2819

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Balamurugan et al. (US 6,320,795 B1, "Balamurugan", hereinafter).

Regarding claim 14, Balamurugan discloses, in Figs. 1 and 2, a system for driving a data signal, comprising:

a data bus (14);

a charging circuit (16) coupled to the data bus, wherein the charging circuit is configured to charge the data bus to a first voltage level (18); and

a pull-down circuit (30, 32 in Fig. 1; 42 in Fig. 2) coupled to the data bus, wherein the pull-down circuit is configured to pull the data bus to a second voltage level (36).

Regarding claim 15, Balamurugan discloses, in Fig. 1 a keeper circuit (24) coupled to the data bus, wherein the keeper circuit is configured to maintain the data bus at the first voltage level after the data bus has been charged.

Regarding claim 16, Balamurugan discloses, in Fig. 2 that the pull-down circuit comprises:

a transistor (42) coupled at one end to the data bus and at the other end to ground;

Application/Control Number: 09/888,970

Art Unit: 2819

logic circuitry (44) coupled to a gate of the transistor, wherein an output signal from the logic circuitry controls the transistor.

Regarding claim 17, Balamurugan discloses, in Fig. 2 that the logic circuitry comprises a first input terminal (48) for receiving an equilibration signal and a second input terminal (50) for receiving a data signal.

Regarding claim 18, Balamurugan discloses, in Fig. 2 that the logic circuitry comprises a NOR gate (44).

Regarding claim 19, Balamurugan discloses, in Fig. 2 that the charging circuit comprises:

a transistor (16) coupled at one end to a power supply voltage source and at the other end to the data bus, wherein the transistor is controlled by an equilibration signal (20).

Regarding claim 20, Balamurugan discloses, in Fig. 1 the keeper circuit comprises:

a transistor (26) coupled at one end to a power supply voltage source and at the other end to the data bus; and

logic circuitry (28) coupled to a gate of the transistor, wherein an output signal from the logic circuitry controls the transistor.

Regarding claim 21, Balamurugan discloses, in Fig. 1 the logic circuitry comprises an inverter gate (28).

Method claims 1-2 and 4-13 are essentially the same in scope as apparatus claims 14-21 and are rejected similarly.

Application/Control Number: 09/888,970

Art Unit: 2819

Regarding claim 3, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Alvandpour et al. (US 6,388,940 B1) discloses leakage-tolerant circuit and method for large register files.

Coppin (US 6,456,116 B1) discloses a dynamic comparator circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (571) 272-1801. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2819

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel D. Chang Primary Examiner Art Unit 2819

dc

DANIEL CHANG PRIMARY EXAMINER